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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,974	01/24/2006	Christian Hesse	14219-093US1 P2003,0036 U	7920	
26161 FISH & RICHA	7590 07/11/200 ARDSON PC	8	EXAMINER		
P.O. BOX 1022		CHEN, KIN CHAN			
MINNEAPOLI	S, MN 55440-1022		ART UNIT	PAPER NUMBER	
			1792		
			MAIL DATE	DELIVERY MODE	
			07/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applic	ation No.	Applicant(s)	Applicant(s)			
		10/542	2,974	HESSE, CHRIST	HESSE, CHRISTIAN			
		Exami	ner	Art Unit				
		Kin-Ch	an Chen	1792				
Period fo	The MAILING DATE of this communi r Reply	cation appears on	the cover sheet w	ith the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed	d on 29 May 2008	₹					
,		b)⊠ This action i	=					
′ —		<i>′</i> —		ters, prosecution as to th	e merits is			
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		-					
4) X	Claim(s) 1-7 and 9-11 is/are pending	in the application	I .					
•	Claim(s) <u>1-7 and 9-11</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed.							
′—	6) Claim(s) <u>1-7 and 9-11</u> is/are rejected.							
	Claim(s) is/are objected to.	•						
•	Claim(s) are subject to restrict	ion and/or electio	n requirement.					
			oquo					
	on Papers							
9)☐ The specification is objected to by the Examiner.								
10)[10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any object		· ·					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ponation Disclosure Statement(s) (PTO/SB/08) One No(s)/Mail Date	ГО-948)	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application 				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 29, 2008 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-7 and 9-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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In claim 1, "the first and second electrodes are made from a material that is not etched by the etching solution or that is etched, by the etching solution, less than the base body is etched by the etching solution" is new matter because it is not supported in applicant's specification.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimoto et al. (US 2002/0089065).

In a method for forming a device, Fujimoto discloses forming a first electrode and a second electrode on a base body; the first electrode at a location opposite the second electrode on the base body; chemically etching at least a portion of the base body to adjust the resistance of the base body to a predetermined value. See abstract, [0029] [0031], Figures 1A and 1B. Table 1.

Fujimoto teaches measuring the resistance of the base body before and after the chemical etch (for example, Table 1). Fujimoto ([0041]) teaches that when a thermistor

chip is dipped in the solvent, its thermistor body becomes smaller as a whole during etching, causing the resistance value to increase.

Fujimoto does not indicate that the first and second electrodes are made for a material that is not etched by the etching solution or that is etched, by the etching solution, less than the base body is etched by the etching solution. However, it would have been obvious to one with ordinary skilled in the art that the electrodes are not etched or highly resistant to the etching solution because the process of Fujimoto is to determine the different amounts of the thermistor body material melted away by measuring the resistance value between the electrodes. Therefore, if the electrodes were etched when in the etching solution, the resistance value between the outer electrodes would have not been measured consistently.

The limitations of claims 1, 10, and 11 have been addressed above and rejected for the same reasons, supra.

As to dependent claim 2, Fujimoto discloses that the base body comprises a ceramic material, see, for example, [0029].

As to dependent claim 3, see [0029] and [0045].

As to dependent claims 5 and 6, Fujimoto discloses immersing the base body in an etching liquid, such as sulfuric acid, see [0031].

As to dependent claim 7, see Table 1.

Fujimoto teaches that the portion of base body dissolved affects the resistance value [0031], Table 1. Claim 9 differs from Fujimoto by specifying various processing parameters (such as determine a difference between the predetermined valued and a

measured value of the resistance and determining a duration for the etching). However, same were known to be result-effective variables and commonly determined by routine experiment. The process of conducting routine experimentations so as to produce an expected result is obvious to one of ordinary skill in the art. In the absence of showing criticality or new, unexpected results, a person having ordinary skill in the art would have found it obvious to modify the prior art by performing routine experiments (by using different process parameters) to obtain optimal result with a reasonable expectation of success.

Dependant claim 4 differs from Fujimoto by specifying various sizes and dimensions (e.g., less than about 3 mm). Because same are merely a matter of choices of design depending on the product requirements and the disclosure of Fujimoto is not limited to any size of the base body, in absence of showing criticality or unexpected results, it would be obvious to one skilled in the art to use various dimensions in order to accommodate the specific product design and meet the product requirement.

Response to Arguments

6. Applicant's arguments filed April 29, 2008 (RCE filed May 29, 2008) have been fully considered but they are not persuasive.

Applicant has argued that Fujimoto [0031] teaches the exposed portions of the chip that are not covered by a resist layer are melted away. it is not persuasive. In fact, Fujimoto [0031] does not mention that the electrodes are melted away, rather, Fujimoto

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specifically states that "exposed surfaces of its thermistor body (not covered by the resist layers)" partially melted away. Furthermore, as has been stated in the office action, it would have been obvious to one with ordinary skilled in the art that the electrodes are not etched or highly resistant to the etching solution because the process of Fujimoto is to determine the different amounts of the thermistor body material melted away by measuring the resistance value between the outer electrodes. Therefore, if the electrodes were etched when in the etching solution, the resistance value between the outer electrodes would have not been measured consistently.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kin-Chan Chen whose telephone number is (571) 272-1461. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kin-Chan Chen/ Primary Examiner, Art Unit 1792

July 3, 2008